NEW

AK60C-48

100 Watts

AK60C-48 Industry Standard Series

Total Power	*100 Watts*
Input Voltages	*48V*
# of Outputs	*Single*

SPECIAL FEATURES

- High Efficiency - (83% min) @ 5V
- -40°C to 100°C baseplate operating temperature (no derating).
- Low output ripple and noise
- High capacitive load limit on start-up
- Remote Sense Compensation
- High reliability
- Regulation to zero load
- Fixed frequency switching (500KHz)
- Enable (positive and negative) function

ENVIRONMENTAL

Operating Temperature (baseplate):
-40°C to +100°C

Storage Temperature: -55°C to +105°C

Overtemperature Protection: 110°C typical

MTBF: >1 million hours

SAFETY

UL	UL1950
CSA	CSA22.2-234
	CSA22.2-950
VDE	VDE 0805
	EN60950
CE	CE Mark

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ELECTRICAL SPECIFICATIONS

Input

Input range ..... 36 to 75VDC
Efficiency ..... 83% @ 5Vo

Control

Voltage Adjust ..... 85 to 115% Vo
Enable ..... TTL compatible (positive and negative enable available)

Output

Load regulation ..... 0.2% typical down to no load (output 5V and above)
10mV typical down to no load (output below 5V)

Line regulation ..... 0.2% typical (output 5V and above)
10mV typical (output below 5V)

Noise/ripple ..... 2% typical

Remote sense ..... Up to 0.5V

Output voltage adjust range ..... ±15% of nominal output

Transient response ..... 10%max deviation with 25% to 75% full load (output 5V and above) 200mV (output below 5V) 500µS (max) recovery

Overvoltage protection ..... 130% nominal output (output 5V and above) 160% nominal output (2.2V output) 140% nominal output (3.3V output)

Current Limit ..... 115% nominal output

NOTES

1. Nominal values apply with sense pins connected and other control pins unconnected.
2. All specifications subject to change without notice. Mechanical drawings are for reference only.

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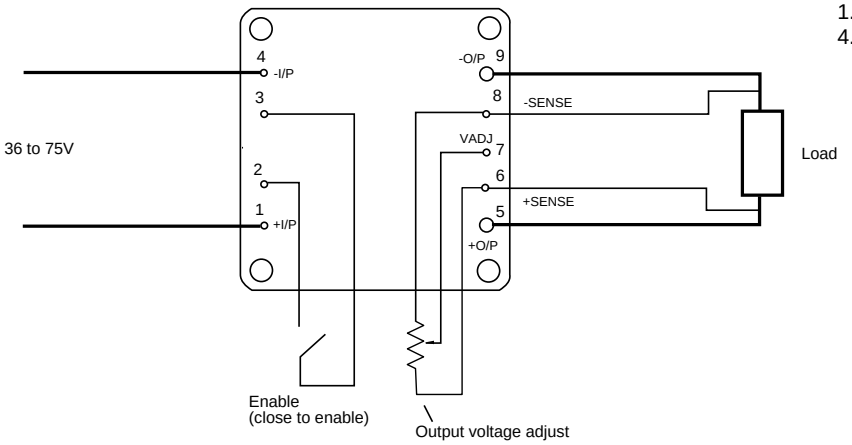
ORDERING INFORMATION

Input Voltage	Output Voltage	Output *Current*	Model Number	Input Voltage	Output Voltage	Output *Current*	Model Number
48V	2.2V	20A	AK60C-048L-022F20G (P)*	48V	12V	8A	AK60C-048L-120F08G (P)*
48V	3.3V	20A	AK60C-048L-033F20G (P)*	48V	24V	4A	AK60C-048L-240F04G (P)*
48V	5V	20A	AK60C-048L-050F20G (P)*				

Please contact Astec for information on other output voltages, power ranges and configurations.
◦ "P" suffix added for positive logic enable. Module (w/out 'P') operates with negative enable.

CONNECTIONS



PIN ASSIGNMENT

Input	Output	Control Pins
1. +ve	5. +ve	2. ENABLE
4. -ve	9. -ve	3. CASE
		6. + Sense
		7. V ADJ
		8. - Sense

DIMENSIONS